ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Surampalem, Andhra Pradesh.
Department Of Computer Science and Engineering

Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH CSE 2
Faculty Name:	**Mrs. R. SAILAJA**	Regulation	R16
Academic Year	2020-21	Batch	1

Project Title: **Self-diagnosing Chatbot for Healthcare domain**

COURSE OUTCOMES (COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Label symptoms for various diseases	Remember
CO2	Classify various treatments for diseases	Understand
CO3	Develop query answer forum for user questions.	Apply
CO4	Categorize and display hospitals near by	Analyze
CO5	Assess disease prediction using Radiology images using ML.	Evaluate
CO6	Estimate COVID disease status district wise and state wise.	Create

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C426.1	1	2	3	3	3	3		2	2	3	2	1	3	2	1
C426.2	2	2	2	1	3	3		2	2	2	2	1	3	2	1
C426.3	2	1	2	1	3	2		2	2	2	2	1	3	2	1
C426.4	2	3	3	1	3	2		2	2	2	2	1	3	2	1
C426.5	2	3	3	2	3	2		2	2	3	2	1	3	2	1
C426.6	2	3	3	1	3	2		2	2	3	2	1	3	2	1
Course	1.83	2.33	2.66	1.5	3	2.33		2	2	2.5	2	1	3	2	1

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
PO6	Engineer & Society	PO12	Life-long Learning

Faculty Signature

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Department Of Computer Science and Engineering

Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH CSE 2
Faculty Name:	**Mrs. R. SAILAJA**	Regulation	R16
Academic Year	2020-21	Batch	1

Project Title: **Self-diagnosing Chatbot for Healthcare domain**

COURSE OUTCOMES (COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Label symptoms for various diseases	**Remember**
CO2	Classify various treatments for diseases	**Understand**
CO3	Develop query answer forum for user questions.	**Apply**
CO4	Categorize and display hospitals near by	**Analyze**
CO5	Assess disease prediction using Radiology images using ML.	**Evaluate**
CO6	Estimate COVID disease status district wise and state wise.	**Create**

CO-PO/PSO MATRIX:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	P O7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
C426.1	1	2	3	3	3	3		2	2	3	2	1	3	2	1
C426.2	2	2	2	1	3	3		2	2	2	2	1	3	2	1
C426.3	2	1	2	1	3	2		2	2	2	2	1	3	2	1
C426.4	2	3	3	1	3	2		2	2	2	2	1	3	2	1
C426.5	2	3	3	2	3	2		2	2	3	2	1	3	2	1
C426.6	2	3	3	1	3	2		2	2	3	2	1	3	2	1
Course	1.83	2.33	2.66	1.5	3	2.33		2	2	2.5	2	1	3	2	1

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
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Department Of Computer Science and Engineering

Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH
Faculty Name:	**Mr.UDDAGIRI LASKHMI NAGENDRA KUMAR**	Regulation	R16
Academic Year	2020-21	Batch	VII

Project Title: Network Penetration Testing

COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Understand the problem by applying acquired knowledge.	Understanding
CO2	Analyze and categorize Attacks and Suitable tools	Analyzing
CO3	Understand the basic concepts and Categorize various techniques in Testing Tools	Understanding
CO4	Choose efficient tools for determining Attacks On Network modules	Applying
CO5	Implements the modules by applying suitable Testing Algorithms	Applying
CO6	Elaborate the completed task and compile the project after efficient testing	Creating

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C426.1	2	1	1	1	1				1	1	1	1	2		
C426.2	2	3	1	2	1				1	1	1	1	2		
C426.3	2	1	1	2	1				1	1	1	1	2		
C426.4	3	2	2	3	3				2	2	2	1	3		
C426.5	3	2	2	3	3				2	2	3	1	3		
C426.6	2	2	2	1	2				2	2	2	1	2		
Course	2.3	1.8	1.5	2.0	1.8				1.5	1.5	1.7	1.0	2.3		

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
PO6	Engineer & Society	PO12	Life-long Learning

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Surampalem, Andhra Pradesh.

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Course Outcome mapping with PO's and PSO's

Course Name:	PROJECT WORK	Class	IV BTECH CSE 2
Faculty Name:	**Mrs. K S B AMBIKA**	Regulation	R16
Academic Year	2020-21	Batch	5

Project Title: Hand Written Digit Recognition using Deep Learning

COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Understand the problem of Optical character recognition (OCR) for the handwritten digit recognition.	**Understand**
CO2	Perform literature survey on various image processing, pre-processing, feature extraction and classification techniques in machine learning to reach the highest accuracy in handwritten digit recognition problem.	**Analyze**
CO3	Understand and choose efficient machine learning and deep learning techniques, suitable benchmark dataset for the identified problem.	**Understand**
CO4	Conduct experiments on handwritten digit recognition by applying the classifiers chosen.	**Apply**
CO5	Identify and apply a series tools to evaluate the experimental results.	**Apply**
CO6	Address the advantages, limitations of the study and also introduce some suggestions for future research.	**Understand**

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C426.1	1	2	2	3	2	2			3	2	1	1	2	1	
C426.2	2	2	2	2	2	1			3	1	1	2	2	2	
C426.3	1	1	1	1	1	2			1	1	1	1	1	1	
C426.4	3	2	3	2	2	1			2	1	2	1	3	2	
C426.5	2	3	2	1	2	1			2	2	2	2	3	1	
C426.6	3	1	2	1	2	1			1	2	1	1	2	1	
Course	2.0	1.8	2.0	1.7	1.8	1.3			2.0	1.5	1.3	1.3	2.2	1.3	

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
PO6	Engineer & Society	PO12	Life-long Learning

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Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH CSE 2
Faculty Name:	Dr M.Anilkumar	Regulation	R16
Academic Year	2020-21	Batch	06

Project Title:
HUMAN SENTIMENT ANALYTICS USING DEEP LEARNING

COURSE OUTCOMES (COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Identify the complexity in multimodal data	Analyze
CO2	Analyze and investigate the better solution	Analyze
CO3	Usage of Deep learning approaches	Apply
CO4	Get the buried information from Tri-modal conclusions and provide a deeper insight on overall human emotional state.	Create
CO5	Create a fusion of multi-modal data analysis machine which can estimate the total sentiment values from the data.	Create
CO6	Build over a machine which would result in effective emotion and intent delivery which stands subsequent to the human mind	Create

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C426.1	3	3		3				3	3	3	3	3	3	2	2
C426.2	3	3		3				3	3	3	3	3	3	3	3
C426.3	3				3			3	3	3	3	3	3	3	3
C426.4	3	3	3		3			3	3	3	3	3	3	3	3
C426.5	3	3	3		3			3	3	3	3	3	3	3	3
C426.6	3	3	3		3			3	3	3	3	3	1	1	1
Course	3	3	3	3	3			3	3	3	3	3	2.6	2.5	2.5

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
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Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH CSE-B
Faculty Name:	Ch S V V S N Murty	Regulation	R16
Academic Year	2020-21	Batch	7

Project Title: Iris based Recognition and Authentication

COURSE OUTCOMES (COs):

Upon completion of the Project Course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Demonstrate technical knowledge of IRIS Concepts	Understand
CO2	Identify the Problem 'Iris based Recognition and Authentication'	Apply
CO3	Undertake problem formulation for Iris based Recognition and Authentication	Create
CO4	Formulate a solution for Iris based Recognition and Authentication	Create
CO5	Build the solution for Iris based Recognition and Authentication	Create
CO6	Demonstrate the knowledge and skills of the Project	Understand

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C426.1	2	2	1	2	1	1	1		3	2	1	2	1	2	2
C426.2	1	2	2	2	1	1	2		3	2	2	2	1	3	2
C426.3	1	1	3	2	1	1			3	2	2	2	2	2	2
C426.4	1	1	3	2	2	1	2		3	2	2	2	2	2	2
C426.5	2	1	3	2	3	1	2		3	2	3	2	2	1	2
C426.6	1	1	1	2	1				2	3	2	2	1	1	1
Course	**1.33**	**1.33**	**2.17**	**2.00**	**1.50**	**1.00**	**1.75**		**2.83**	**2.17**	**2.00**	**2.00**	**1.50**	**1.83**	**1.83**

PO1	Engineering Knowledge	PO7	Environment & Sustainability	
PO2	Problem Analysis	PO8	Ethics	
PO3	Design / Development of Solutions	PO9	Individual & Team Work	
PO4	Conduct Investigations of complex problems	PO10	Communication Skills	
PO5	Modern Tool usage	PO11	Project Management & Finance	
PO6	Engineer & Society	PO12	Life-long Learning	

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Surampalem, Andhra Pradesh.
Department Of Computer Science and Engineering

Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH
Faculty Name:	Mrs J D Lalitha	Regulation	R16
Academic Year	2020-21	Batch	VIII

Project Title: Automated Prediction of Non-alcoholic Fatty Liver Disease using Machine Learning Algorithms

COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Understand the problem by applying knowledge.	Understanding
CO2	Analyze the Requirements of the project	Analyzing
CO3	Choosing suitable machine learning algorithm for the project	Understanding
CO4	Choose a Model that best fits the project	Applying
CO5	Train the Model using various machine learning algorithms	Create
CO6	Test the Model and check the accuracy	Apply

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C426.1	3	2	1	1					2	1	2	2	2	
C426.2	2	3		2					2	2	1	2	2	
C426.3	3	2	2	2	2				1	2	2	2	2	
C426.4	2	3	3	2	2				2	1	2	2	3	
C426.5	2	3	3	3	3				2	1	2	2	3	
C426.6	2	1	1	3	2				1	1	1	2	2	
Course	2.3	2.3	2.0	2.1	2.2				1.6	1.3	1.6	2.0	2.3	

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
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Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH
Faculty Name:	**Ms.N MARY JOYCY DEBORAH**	Regulation	R16
Academic Year	2020-21	Batch	VII

Project Title: Caption Bot for Assistive Vision

COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Understand the problem by applying knowledge.	**Understanding**
CO2	Analyze the Requirements of the project	**Analyzing**
CO3	Choosing suitable machine learning algorithm for the project	**Understanding**
CO4	Choose a Model that best fits the project	**Applying**
CO5	Train the Model using various machine learning algorithms	**Create**
CO6	Test the Model and check the accuracy	**Apply**

CO-PO/PSO MATRIX:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
C426.1	2	2	1	2	1				1	1	1	1	2		
C426.2	2	2	2	2	1				1	3	1	1	2		
C426.3	2	1	1	2	1				3	1	1	1	2		
C426.4	3	2	2	3	3				2	2	3	1	3		
C426.5	3	2	2	3	3				2	2	2	3	3		
C426.6	2	2	2	1	2				2	2	2	1	3		
Course	2.3	1.8	1.7	2.2	1.8				1.8	1.8	1.7	1.3	2.5		

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
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Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH CSE-B
Faculty Name:	J L Sarwani Theeparthi	Regulation	R16
Academic Year	2020-21	Batch	10

Project Title: Bitcoin Price Prediction

COURSE OUTCOMES (COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Study about existing systems and proposed systems by Literature survey of Bitcoin Price Prediction System	Understand
CO2	Apply the knowledge for proposed system of BPP	Apply
CO3	Analyze data using Time series, Forecasting and regression analysis	Analyze
CO4	Design BPP system using UML diagrams	Design
CO5	Develop and build solution using Spider IDE, Anaconda Navigator ,Power-shell, Panda Data frame	Create
CO6	Test results based on Crypto currency type, Past data and Future prediction data and INR per BitCoin	Evaluate, Create

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C426.1	3	3		3	2	2		3	3	3	2	2		
C426.2	3	2		2	2	3		3	3	3	2	2		
C426.3	3	3	2	3	3	1		2	3	3	2	2	3	2
C426.4	3		3		2			3	3	3	3	2		3
C426.5	3			2	3	2		3	3	3	3	2	2	3
C426.6	3	2	1	2	3	2		3	3	3	3	2	2	
Course	3	2.5	2	2.4	2.5	2		2.83	3	3	2.5	2	2.3	2.6

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
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Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH –B
Faculty Name:	Ms N Madhuri	Regulation	R16
Academic Year	2020-21	Batch	11

Project Title: RICE LEAF DISEASE DETECTION AND CLASSIFICATION USING DEEP LEARNING

COURSE OUTCOMES(COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Identify diseases of leaves, fruits and stems of rice plants	Understanding
CO2	Find out the shape and color of rice plants and infected areas.	Create
CO3	Develop CNN-based framework to identify three different rice	Create
CO4	Create a Database model for healthy leaves and non-healthy	Create
CO5	Build a ANN model to detect various plant leaf diseases	Create
CO6	Develop a solution on rice diseases.	Create

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C426.1	2	1	1	2					2	1	1	1	1		
C426.2	2	2	3	2					2	2	1	1	2		
C426.3	2	1	2	1					2	2	1	1	2		
C426.4	2	1	2	1					3	2	2	1	2		
C426.5	2	2	3	1					2	2	2	1	2		
C426.6	2	2	3	1					2	2	2	1	2		
Course	2.0	1.5	2.3	1.3					2.1	1.8	1.5	1.0	1.8		

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
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Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH CSE 1
Faculty Name:	**Mr.G A K S RAJEEV KUMAR**	Regulation	R16
Academic Year	2020-21	Batch	12

Project Title: Pneumonia Detection using Convolution Neural Network

COURSE OUTCOMES (COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Understand the problem by applying acquired knowledge.	Understanding
CO2	Analyze and categorize executable project modules after considering tasks.	Analyzing
CO3	Understand the basic concepts and Categorize various techniques in Machine Learning.	Understanding
CO4	Choose efficient tools for designing project modules.	Applying
CO5	Implements the modules by applying suitable Machine Learning Algorithm	Applying
CO6	Elaborate the completed task and compile the project after efficient testing	Creating

CO-PO/PSO MATRIX:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C426.1	2	1	1	2	1	2		3	1	1	1	1	2	2	1
C426.2	2	3	1	2	1	3		3	1	1	1	1	2	2	1
C426.3	2	1	1	2	1	2		3	1	1	1	1	2	2	1
C426.4	3	2	3	3	3	2		3	2	2	3	1	3	3	1
C426.5	3	2	2	3	3	1		3	2	2	3	1	3	3	1
C426.6	2	2	2	1	2	1		3	2	2	2	1	2	2	1
Course	2.3	1.8	1.6	2.1	1.8	1.8		3	1.5	1.5	1.8	1.0	2.3	2.3	1.0

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
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Course Outcome mapping with PO's and PSO's

Course Name:	Project Work	Class	IV BTECH CSE 1
Faculty Name:	**Mr.VENKATESH KARNASULA**	Regulation	R16
Academic Year	2020-21	Batch	13

Project Title: SOIL AND LAND CLASSIFICATION

COURSE OUTCOMES (COs):

Upon completion of the course, students will be able to:

CO#	Course Outcomes	Blooms Taxonomy level
CO1	Understand the Problem statement	Understand
CO2	Classify various types of soils for Crop	Understand
CO3	Develop Model for Analyze the soil	Analyze
CO4	Understand and choose efficient machine learning and deep learning techniques, suitable benchmark dataset for the identified problem.	Understand
CO5	Conduct Testing on Data set by applying the Classification	Apply
CO6	Understand the advantages, limitations of the study and also introduce some suggestions for future research.	Understand

CO-PO/PSO MATRIX:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	P O7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
C426.1	1	2	3	3	3	3				1	1	2	1	
C426.2	2	2	2	1	3	3				2	1	2	2	
C426.3	2	1	2	1	3	2				1	2	2	2	
C426.4	1	1	1	1	1	2				1	1	1	1	
C426.5	2	3	2	1	2	1			2	2	2	2	3	
C426.6	3	1	2	1	2	1			1	2	1	1	2	
Course	1.83	2	2	1.33	2.33	2			0.5	1.5	1.3	1.66	1.83	

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
PO6	Engineer & Society	PO12	Life-long Learning

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